

Revised	Date
PC	4/19/83
ew	4-19-83
	4/18/83
	mk 4/18/83

FR/EN
WR ND

APR 19 1983

MEMORANDUM

To: Manager, Tewaukon NWR
From: Regional Engineer, Region 6
Subject: Annual Water Use Report and Management Plan

Thank you for the timely submission of your 1982 Water Use Report and 1983 Water Management Plan.

The report has been reviewed and the following information is requested to complete an already detailed report:

- * Please provide a table reflecting amount of inflow from all sources as compared to water rights held.
- * Location of gages or other measuring devices.
- * Provide pertinent data for all artesian wells, i.e.:

location	size of flow
size	character of water
depth to aquifer	construction and/or history of well
	place and type of use

The State Engineer's Office requests annual reports on the operation and use of ground water wells, including the above information. Some information, such as location, size, and construction history, need not be submitted each year. Other data may be submitted in a table. Either our Water Rights Specialist, Ginger Chesy, or our Regional Hydrologist, Robert Green, could help you devise a table, if needed.

Your cooperation in this matter is appreciated.

cc: AWR, R6 w/enc1.

EN:Chesy:mk:4/14/83



United States Department of the Interior

FISH AND WILDLIFE SERVICE

TEWAUKON NATIONAL WILDLIFE REFUGE
CAYUGA, NORTH DAKOTA 58013

USFWS

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ENGINEERING

MEMORANDUM

To: Regional Engineer
Denver, CO

May 4, 1983

From: Refuge Manager, Tewaukon NWR
Cayuga, ND

Subject: Additional Information for the Annual Water Use Report

I discussed this report with Ms. Williss on 4/28. Based on her instructions, the information is below.

Amount of inflow compared to water rights

Of the four water inflow routes, only the Wild Rice River has a flow measuring station and we do not have access to it. Ms. Willis agreed that they could calculate total inflows from the amount each pool filled in the spring. (The gauge is located on the River about $\frac{1}{2}$ mile downstream from the Sprague Lake Unit and about two miles upstream from the Tewaukon Unit in Section 36, T. 130 N., R. 55 W. It is run by the US Geological Survey, PO Box 1437, Grand Forks, ND and has been in place well over ten years. Mr. Larry Erickson, Rutland, ND reads it once per day when the River is flowing and mails in reports).

Location of gauges or other measuring devices

The Refuge has no devices beyond staff gauges set to MSL on nearly all pools. See above concerning a Wild Rice River gauge.

Data for all artesian wells

There are at least seven old artesian wells scattered over the Refuge. Due to age, only three run more than a seep, as listed below.

Location: Section 26, T. 130 N., R. 54 W.; Section 36, T. 130 N., R. 54 W.;
Section 2, T. 130 N., R. 55 W., as shown on the attached map.

Size: About a 2" outside pipe

Depth to aquifer: 650-800 feet (according to local well driller)

Size of flow: Section 36 well - 9.4 gal/min measured at well head. Section
2 well - 1.5 gal/min measured at the outlet pipe 500 feet
downhill from the well. Section 26 well - 1.8 gal/min
measured at the outlet pipe 825 feet downhill from the well.

Character of water: Drinkable but heavily mineral (salts, fluoride) little
iron.

Construction: Drilled by farmers in the 1930's with outer steel pipe down
to shale and a 1- $\frac{1}{4}$ " inner pipe into the aquifer.

May 4, 1983

Type of use: Drilled originally for farm use but now the flows have been piped downhill into the nearest wetland to provide wildlife habitat. The Section 36 well overflows the wetland and flows to some degree into Lake Tewaukon.

Other topics discussed on the telephone 4/28/83

Mention was made of the low-hazard dams list. Attached is a copy of that memo. As I understand our three water permits, all of these pools are covered by water rights except Dam 8, Hepi Lake.

For your information, attached is a copy of my 10/5/82 memo requesting application for permits on Pools 3 and 4. This request was based on the State's Dam Safety Inspection Reports. As noted on 3/1/83 on the bottom of our file copy of that memo, I found in the file that Permit 1261 dated 12/23/64 does cover Pools 3 and 4. I concluded the Dam Safety Report was in error.

In my 10/5/82 memo I asked about a permit for the Horseshoe Slough Development north of Mann Lake. Since that memo, I read that Permit 1263 covers Horseshoe Slough. Our files indicate that up to June 1978 we were still working on getting Permits 1263 and 1262. I find in the files no official notification that these Permits were granted. I assume they have been granted; please mail a copy of the issuing documents for our records.


David G. Potter

Attachments

cc: Dale Henry, R&W

[illegible]

Flowing Wells



United States Department of the Interior
FISH AND WILDLIFE SERVICE
TEWAUKON NATIONAL WILDLIFE REFUGE
CAYUGA, NORTH DAKOTA 58013

MEMORANDUM

To: Regional Office, EN
Denver, CO

November 17, 1982

From: Refuge Manager, Tewaukon NWR
Cayuga, ND

Subject: Additional Low-Hazard Dams

Because they impound more than 25 acre-feet of water, there are the below listed low-hazard dams or dikes at Tewaukon NWR. They are not on the AWP list.

- Dam 1 (Lake Tewaukon Dam)
- Dam 2 (Culter Marsh Dam)
- Dam 3 (Maka Pool Dam)
- Dam 4 (River Pool Dam)
- Dam 8 (Hepi Lake Dike)
- Dam 11 (West White Lake Dike)
- Dam 13 (Mann Lake Dike)
- Dam 14 (Sprauge Lake Dike)
- Dam A (Horseshoe Slough Pool A Dike)
- Dam B (Horseshoe Slough Pool B Dike)
- Dam C (Horseshoe Slough Pool C Dike)
- Dam D (Horseshoe Slough Pool D Dike)
- Dam E (Horseshoe Slough Pool E Dike)

Also, there is listed a "Wild Rice Lake NWR, Mantador, ND". This is in my District but I am unaware of this NWR.

There is a Wild Rice NWR (easement refuge) at Cayuga, ND. The old rubble dam washed out many years ago. There are no known plans to replace it.

David G. Potter

UNITED STATES GOVERNMENT

Memorandum

Copy in Water Rights
file.

TO : Regional Director, EN
Denver, Colorado

DATE: October 5, 1982

FROM : Refuge Manager, Tewaukon NWR
Cayuga, North Dakota

SUBJECT: Application for Water Storage Permit, Pools 3 and 4

The two Dam Safety Inspection Reports from the ND State Water Commission received September 17, 1982 states that Tewaukon NWR pool 3 (Maka Pool) and pool 4 (River Pool) do not have water storage permits.

The Reports for each pool provide all the details. These reports were submitted by the State to Mr. Terry Clayton, RO (EN).

Please proceed with making permit applications for these two pools.

Also, please check to see if the approximately 250 surface acres of pools in the Horseshoe Slough Development, Sprague Lake Unit of Tewaukon NWR are covered by appropriate water permits. The dirt work was done summer of 1979. Due to lack of rains, the pools have only been partially filled (40%) for a few months - in spring-summer 1980.

David G. Potter

3/1/83 In reading the Water Rights file I found the 12/23/64 filing for rights under permit 1261. This permit lists Pools 1, 2, 3, 4 & the 2 White lakes. I conclude the Dam Safety Report (above) to have been in error in saying that Pool 3 & 4 didn't have storage permits.

dap